


Safety Data Sheet

Section 1. Identification	
Product Identifier	Boric Acid
	Version: 7 Effective Date: 25 January 2021
Other Means Of Identification	None
Initial Supplier Identifier	Chemfax Products Ltd. 11444 – 42 Street SE Calgary, AB T2C 5C4 Tel: 403-287-2055
Recommended Use And Restrictions On Use	Industrial applications. No restrictions
Product Family	Lewis Acid
Emergency Phone	1-855-887-2055 Monday - Friday 8:00am - 4:30pm MST

Section 2. Hazard Identification	
Hazard Classification	
Health Hazards	Reproductive Toxicity – Category 2
Signal Word	Warning
Hazard Statement	Suspected of damaging fertility or the unborn child.
Precautionary Prevention Statement	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, clothing, eye and face protection.
Precautionary Response Statement	If exposed or concerned: Get medical attention.
Precautionary Storage Statement	Store locked up
Precautionary Disposal Statement	Dispose of contents/container in accordance with local regulations.
Other Hazards	May be harmful if swallowed. Avoid generation of dust during handling.

Safety Data Sheet

Section 3. Composition / Information on Ingredients			
Chemical Name	Common Name or Synonyms	CAS NO. and Other Unique Identifiers	% by weight
Boric Acid	N/A	10043-35-3	100

Section 4. First-Aid Measures	
Eye Contact	Flush eyes with water for 15 minutes. Seek medical attention.
Skin Contact	Flush area with water. If irritation persists seek medical attention. Launder clothing before reuse.
Inhalation	Remove victim to fresh air. If there is difficulty breathing, seek immediate medical attention.
Ingestion	Remove victim to fresh air. If there is difficulty breathing, seek immediate medical attention.
Most Important Symptoms and Effects Both Acute and Delayed	Irritation, nausea, headache, shortness of breath. May damage central nervous system. Diarrhea. Vomiting. May impair fertility. May damage the unborn child. May cause liver and kidney damage.
Immediate Medical Attention and Special Treatment	Provide SDS to physician.

Section 5. Fire-Fighting Measures	
Suitable and Unsuitable Extinguishing Media	Use extinguishing media suitable for surrounding fire.
Hazardous Combustion Products	None known.
Specific Hazards Arising From the Product	Thermal decomposition leads to release of irritating gases and vapors.
Special Protective Equipment and Precautions for Fire-Fighters	Fire-fighters should wear a self-contained breathing apparatus and full protective clothing. Use water spray to cool containers and structures exposed to fire.



Manufacturer of Specialty Chemicals

Safety Data Sheet

Section 6. Accidental Release Measures	
Personal Precautions, Protective Equipment and Emergency Procedures	Gloves, coveralls, safety glasses. Keep unprotected persons away. Ensure adequate ventilation. Mop up spilled material.
Environmental Precautions	Do not allow spilled material to enter sewers and surface watercourses.
Methods and Materials for Containment and Clean-Up	Scoop or sweep up spilled material, making sure to create as little dust as possible. Place in a suitable container for disposal. Wash area with water to remove residues.

Section 7. Handling and Storage	
Precautions For Safe Handling	Handle with care. Avoid dust accumulation.
Conditions For Safe Storage	Store in a cool dry place. Keep containers tightly closed when not in use. Protect against moisture.

Section 8. Exposure Controls / Personal Protection				
Control Parameters	TWA: 8 Hr	STEL: 15 min	Ceiling	IDLH *
Boric Acid	2 mg/m ³ ACGIH	6 mg/m ³ ACGIH		
	* Immediately Dangerous to Life and Health			
Exposure Controls	Local exhaust ventilation			
Appropriate Engineering Controls	Ensure eye wash station and safety shower are available.			
Individual Protective Measures				
Eye / Face Protections	Safety glasses.			
Skin Protection	Chemical resistant coveralls and gloves.			
Respiratory Protection	Air purifying respirator fitted with HEPA filters if exposure limits are exceeded			

Section 9. Physical and Chemical Properties	
Appearance	White, crystalline solid.
Odour	Odourless
Odour Threshold	Not applicable.
pH	6.1 (0.1 % solution) 5.1 (1 % solution).



Manufacturer of Specialty Chemicals

Safety Data Sheet

Flash Point	No data
Boiling Point and Boiling Range	No data
Melting Point and Freezing Point	170.9 °C
Evaporation Rate	Not applicable.
Flammability (solid, gas)	Not flammable
Upper and Lower Flammability or Explosive Limits	No data
Vapour Pressure	Not applicable.
Vapour Density	Not applicable.
Relative Density	1.51
Solubility	Partially soluble in water
Partition co-efficient, n-Octanol/Water	No data
Auto-ignition Temperature	No data
Decomposition Temperature	100 °C
Viscosity	No data

Section 10. Stability and Reactivity	
Reactivity	Stable
Chemical Stability	Stable
Possibility of Hazardous Reactions	Will not occur
Conditions to Avoid	Excessive heat
Incompatible Materials	Reaction with strong reducing agents, such as metals hydrides or alkali metals, will generate hydrogen gas, which could create an explosion hazard.
Hazardous Decomposition Products	Not expected to decompose under normal conditions of use.

Safety Data Sheet

Section 11. Toxicological Information	
Component Toxicity	LD50 Oral LD50 Dermal LC50 Inhalation
Boric Acid	2.66g/kg (Rat) 2g/kg (Rabbit)
Likely Routes of Exposure	
Skin:	No hazard expected.
Eyes:	No hazard expected.
Inhalation:	Dust may irritate nose and throat.
Ingestion:	Low toxicity. Small amounts are not likely to cause injury. Larger amounts may cause digestive tract disturbances.
Acute Toxicity Estimates (ATE)	Not classified
STOT (Specific Target Organ Toxicity) – Single	Not classified
Aspiration Toxicity	Not classified
STOT (Specific Target Organ Toxicity) – Repeated Exposure	Not classified
Skin Corrosion / Irritation	Not classified
Serious Eye Damage / Irritation	Not classified
Respiratory or Skin Sensitization	Not classified
Carcinogenicity	Not listed.
Reproductive Toxicity	
- Sexual Function and Fertility	Animal feeding studies have demonstrated effects on fertility and testes. Relevance to humans is not known.
- Development of Offspring	Not classified
- Effects on or via Lactation	Not classified
Germ Cell Mutagenicity	Mutagenic effects have been observed in microorganisms.
Interactive Effects	None known
Other Information	None known



Manufacturer of Specialty Chemicals

Safety Data Sheet

Section 12. Ecological Information	
Ecotoxicity	LC50: 1020 mg/L (Carassius auratus)
Persistence and Degradability	Not classified
Bioaccumulative Potential	No data
Biodegradability	No data
Mobility in Soil	Not available
Other Adverse Effects	Care should be taken to reduce amounts released into the environment. Boron is naturally occurring and ubiquitous in the environment. Product decomposes in the environment to natural borate, is soluble in water and is leachable through normal soil.

Section 13. Disposal Considerations	
Disposal Considerations	Dispose of contents / container in accordance with local regulations.

Section 14. Transport Information	
UN Number	Not applicable
UN Proper Shipping Name	Not applicable
Transport Hazard Class(es)	Not applicable
Packaging Group	Not applicable
Environmental Hazards	Not applicable
Bulk Transport	Not applicable
Special Precaution	Not applicable
DOT Erg#	Not applicable

Section 15. Regulatory Information	
Canada – DSL Inventory	All components of this product are either on the Domestic Substances List (DSL), Non-Domestic Substances List (NDSL), or exempt
TSCA	All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt
Additional Information	None



Manufacturer of Specialty Chemicals

Safety Data Sheet

Section 16. Other Information	
NFPA Rating	Health-2/ Flammability-0/Reactivity-0/Special Hazard-Not applicable
HMIS Rating	Health-2/Flammability-0/Reactivity-0/Personal Protection-See Section 8.
Prepared by:	Chemfax Products Ltd., Technical Department
Date Prepared:	17 August, 2012
Date of Latest Revision:	25 January 2021
Disclaimer Notice to reader To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Chemfax Products Ltd. expressly disclaims all expressed or implied warranties of merchantability and fitness for a particular purpose with respect to the product provided.	